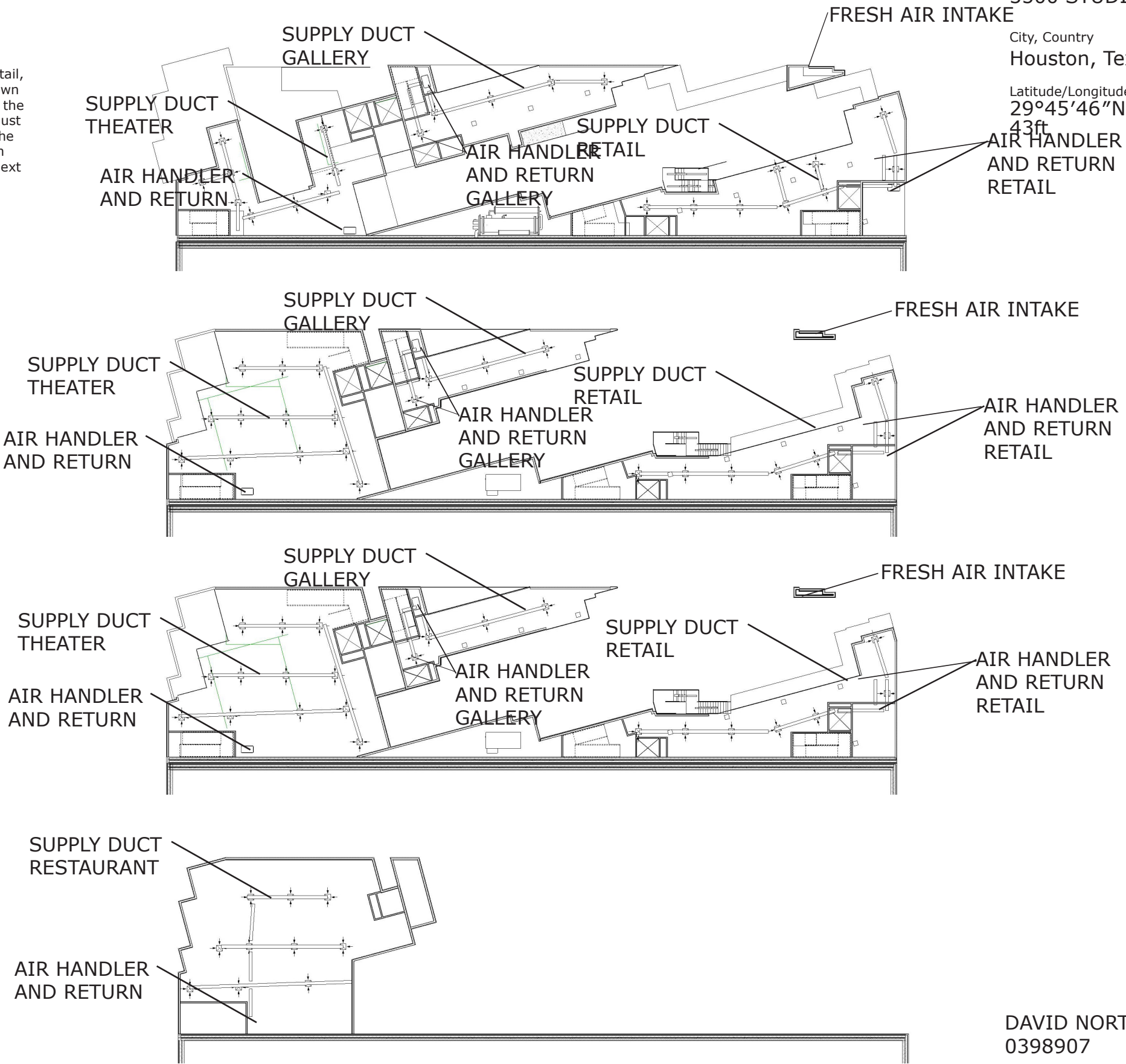


MECHANICAL SYSTEMS

The mechanical systems for the project revolve around a central mechanical tower and a 8'0" mechanical/electrical/plumbing/service plenum that occupies the first level. All the building functions are located on the second level. Each building function, for example, retail, gallery, theater and restaurant are seperate spaces and have their own services via the plenum. Ventilation is served by an intake tower at the southwest corner of the project and is raised to avoid intake of exhaust and general urban stink. The ventilation is exhausted out through the top of the mechanical tower. The air handlers are supplied this fresh ventilation by way of the mechanical plenum. The diagram on the next page show the 3d layout of the systems. The gallery space is

COOLING CAPACITY: 100ft2/ton
Total space for boiler room: 680ft2 (720ft2 provided)
Total space for cooling towers: 110ft2 (720 provided)
Size of cooling tower: 39'-3" x 7'-8" x 7'-9"

Cooling air volume: 25,000 CFM (m2/sec)
Area of main supply or return ducts: 10 ft2
Area of branch supply or return ducts: 20ft2
area of fan rooms: 800ft2
area of fresh air louvers: 300ft2
area of exhaust air louvers: 250ft2



Project Name:
3500 STUDIO PROJECT
City, Country
Houston, Texas USA
Latitude/Longitude/Elevation
29°45'46"N 95°22'59"W
43ft

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